User Interface Equipment

    AM

        MUSA

            AUA

4.2.1 .O 14	User profile data shall be accepted into the system manually.	Derived
4.2.1.015	User profile data shall be accepted into the system electronically (standard format).	Derived
4.2.1.0 16	User profile data shall be accepted into the system electronically (Non-standard format).	Derived
4.2.1.019	A user profile shall be able to be activated and deactivated via an activation/deactivation request.	Derived
4.2.1.027	Users shall be allowed to query user account information.	Derived
4.2.1.056	A service profile shall be able to be activated and deactivated via an activation/deactivation request.	Derived
4.2.1.059-a	A distribution profile shall be able to be activated/deactivated via an activation/deactivation request.	Derived
4.2.1.060.a	A profile confirmation shall be sent to each user registered for a service to confirm their registration.	Derived
4.2.1.060.b	A profile confirmation shall be sent to each user registered for a service to verify the correctness of the information contained in their user profile.	Derived
4.2.1.062	Provider profile data shall be accepted into the system manually.	Derived
4.2.1.063	Provider profile data shall be accepted into the system electronically (standard format).	Derived
4.2.1.064	Provider profile data shall be accepted into the system electronically (non-standard format).	Derived

    IM

        MIRP

            CRI

6.2.3.001	Incidents shall be classified based on incident data.	GGO 20.10.1

		6.2.3.002	Incidents shall be classified according to standard catagories (Rational: Requirements specify a wide range of classifications which are covered by this standard e.g., HAZMAT chemical spills, breakdown/disable vehicle, accidents within injuries, major events).	USR 5.1.2.2.3,5.1.1.1,4

DAI

		6.2.1 .002	Incidents shall be detected and incident data collected for unplanned incidents.	USR 1.7.1, 1.7.1.2,4.5.1
		6.2.1.004	Incidents shall be detected using incident data collected from media sources.	USR 1.7.1.1.1, 1.7.1.2.1
		6.2.1.005	Incidents shall be detected using incident data collected from weather information sources.	USR 1.7.1.1.1, 1.7.1.2.1
		6.2.1.018	Incident data shall include type of incident classification.	USR 1.7.1.1.2, 1.7.1.2.2,
		6.2.1.019	Incident data shall include location.	USR 1.7.1.1.2, 1.7.1.2.2,
		6.2.1.021	Incident data shall include time of occurrence.	USR 4.5.1.2

MMR

		6.2.2.007	A mayday request shall be able to be initiated manually.	USR 5.1.1.1
		6.2.2.008	A mayday request shall be able to be initiated automatically (i.e. without requiring user action).	USR 5.1.1.4, 5.1.2.1
		6.2.2.009	A mayday cancellation shall be accepted for any mayday request that has been manually initiated by the user.	USR 5.1.1.2
		6.2.2.012	The Mayday Service profile shall contain vehicle identification (e.g. registration number).	USR 5.1.1.1
		6.2.2.013	The Mayday Service profile shall contain vehicle information (e.g. year, make, model, color).	USR 5.1.1.1
		6.2.2.014	The Mayday Service profile shall contain, owner information (e.g. name, address, age, emergency contact name and phone number, special medical conditions).	Derived
		6.2.2.015	The Mayday Service profile shall contain, frequent vehicle occupant(s) information (e.g. name, address, age, emergency contact name and phone number, special medical conditions).	Derived
		6.2.2.0 16	Mayday Service profiles shall be stored and maintained.	Derived

Component					Source
Service	**Function**	**Sub-Function**	**Requirement**		
			6.2.2.017	Upon receipt of a mayday request or cancellation, an acknowledgement message shall be sent to the Mayday Service requestor.	USR 5.1.1.3, GGO 20.10
			6.2.2.018	A mayday acknowledgement message shall contain, verification that the request or cancellation for help has been received.	USR 5.1.1.3
			6.2.2.019	A mayday acknowledgement message shall contain, estimated time when help will arrive.	MnE 5.2,5.2.1,5.2.2
RMR					
	DRO				
		DRS			
			8.3.2.001	Real-time demand responsive dispatch shall be provided to allow paratransit and other passengers to schedule requests for same-day trips.	GGO 11.5.1, MnA 6.1.2,
			8.3.2.002	Upon receipt of a DEMAND RESPONSIVE REQUEST, the vehicle driver shall be contacted in real-time to determine if the driver will accept the request.	USR 1.4.1.4,2.3.2.9,2.3
			8.3.2.003	If the vehicle driver does not respond to the DEMAND RESPONSIVE REQUEST within (TBD) minutes, the DEMAND RESPONSIVE RESPONSE shall indicate "denied".	USR 1.4.1.4,2.3.2.9,2.3
			8.3.2.004	If the vehicle driver responds to the DEMAND RESPONSIVE REQUEST within (TBD) minutes, the DEMAND RESPONSIVE RESPONSE shall indicate the driver's response.	USR 1.4.1.4,2.3.2.9,2.3
		RSA			
			8.3.3.005	Schedule adherence information shall be reported as necessary to notify passengers that the rideshare vehicle arrival is imminent.	USR 2.3.1.4
			8.3.3.012	Travelers shall be notified if they missed a travel connection.	Derived
		RSU			
			8.3.1.001	RIDESHARE COMPLETIONS data including passenger trip origin and pick-up time shall be collected and stored as service usage data.	USR 1.4.3.5, 1.4.3.6,2.3
			8.3.1.002	RIDESHARE COMPLETIONS data including passenger trip destination and drop-off time shall be collected and stored as service usage data.	USR 1.4.3.5, 1.4.3.6,2.3
	RSO				
		DTSPI			

Component				
Service	**Function**	**Sub-Function**	**Requirement**	**Source**
			8.1.5.001	Rideshare provider information reports shall be generated as needed by rideshare transporation providers.	USR 1.4.2.3
			8.1.5.002	Rideshare provider information vehicle manifests shall be generated daily for each rideshare vehicle.	Derived
		RSO		
			8.1.3.001	Rideshare offers for paratransit commercial operators shall be maintained.	USR 1.4.3.3
			8.1.3.002	Rideshare offers for vanpools, express bus, bus, rail and taxis shall be maintained.	USR 1.4.2.4, 1.4.3.3
			8.1.3.003	Rideshare offers for single trip carpools shall be maintained to allow qualified drivers to use their vehicle to offer rides to others who are traveling in the same direction.	SB 73-3
			8.1.3.004	Rideshare offers shall include the number of seats available in the rideshare vehicle.	SB 73-4
			8.1.3.005	Rideshare offers for single trip carpools shall include origin and destination checkpoints.	SB 73-3
			8.1.3.006	Rideshare providers profile information shall be maintained for each provider.	Derived
	RSR			
		DRI		
			8.2.3.001	When Rideshare Information indicating a confirmed rideshare request is received, the transit user shall be contacted and provided with Trip Itinerary listing departure and arrival times, along with times associated with any intermediate stops.	USR 2.3.1.3
			8.2.3.002	When Rideshare Information indicating a confirmed rideshare request is received, the transit user shall be contacted and provided with Provider Information (e.g. driver name, vehicle license number).	USR 1.4.0
			8.2.3.003	Schedule Adherence Information shall be used to compute the additional time it will take for the rideshare vehicle to arrive at the transit user departure point. When this time matches the timeout period listed in the transit User Profile, an imminent arrival notification (Rideshare Information) shall be sent to the transit user.	USR 2.3.1.4
			8.2.3.008	When RIDESHARE INPORMATION indicates an available ride for a waitlisted request, the transit user shall be contacted and notified about the available ride.	Derived

8.2.3.010	Mode Use Information shall be made available to any user.	

RRQ

8.2.2.001	RIDESHARE REQUEST information shall be collected from the transit user to allow the user to request a specific rideshare trip itinerary.	
8.2.2.002	RIDESHARE REQUEST information shall include Trip Date.	USR 1.4.1.2
8.2.2.003	RIDESHARE REQUEST information shall include Trip Frequency (e.g. daily, weekly, monthly)	Sbus 74- 1
8.2.2.004	RIDESHARE REQUEST information shall include Time of pick-up.	USR 1.4.1.2,2.3.1.1
8.2.2.005	RIDESHARE REQUEST information shall include Time of drop-off.	USR 1.4.1.2,2.3.1.1
8.2.2.006	RIDESHARE REQUEST information shall include Trip Origin.	USR 1.4.1.2,2.3.1.1
8.2.2.007	RIDESHARE REQUEST information shall include Trip Destination.	USR 1.4.1.2,2.3.1.1
8.2.2.008	RIDESHARE REQUEST information shall include Rider Constraints (e.g. handicap access).	USR 1.4.1.2,2.3.1.2
8.2.2.009	The transit user shall be permitted to submit a RIDESHARE REQUEST to obtain information about available single trips.	USR 1.4.1.1
8.2.2.010	The transit user shall be permitted to submit a standing RIDESHARE REQUEST to obtain information about available daily, weekly or monthly trips.	Sbus 74- 1
8.2.2.011	The transit user shall be permitted to suspend a standing RIDESHARE REQUEST when the user has a change in travel plans.	Sbus 74- 1
8.2.2.012	The transit user shall be permitted to submit RIDESHARE REQUESTs via telephone, mail, or personally owned computer equipment.	Sbus 43-4
8.2.2.013	The transit user shall be permitted to submit a RIDESHARE REQUEST to reserve a seat for a single trip, daily trip, weekly trip or monthly trip.	Sbus 43-4
8.2.2.015	When rideshare information is received, it shall be forwarded to the transit user via the user's preferred delivery method (i.e. computer, mail).	Derived

					Source
			8.2.2.016	When a transit user submits a telephone or computer generated rideshare request for a single trip reservation, real-time rideshare information shall be provided while the transit user is connected to the ride matching and reservations service.	Derived
			8.2.2.017	The transit user shall be provided with the capability to either wait for real-time RIDESHARE INFORMATION, or to disconnect and have the service contact him with the information when it becomes available.	Derived
			8.2.2.018	If rideshare information contains no rideshare options, the transit user shall be notified that his rideshare request for a trip reservation will be wait-listed.	Derived
			8.2.2.019	If the transit user rejects all of the available rideshare options, the transit user shall be notified that his rideshare request for a trip reservation will be wait-listed.	Derived
			8.2.2.020	When updated rideshare information is received for a wait-listed reservation, the rideshare information shall be forwarded to the transit user via the user's preferred delivery method (i.e. telephone, computer, mail).	Derived
			8.2.2.021	When a transit user selects an available rideshare option, a RIDESHARE REQUEST for the selected option shall be generated to reserve a seat on the provider's vehicle.	Derived
TCI					
	MTCI				
		DTCI			
			1.2.1.012.b	Travel conditions shall be made available to humans	Derived
			1.2.1.017	Travel conditions shall be distributed via phone.	MnE 1.3.3,2.4.3, MnA
			1.2.1.019	Travel conditions shall be distributed via fax.	MnE 1.3.3,2.4.3, MnA
			1.2.1.025	Travel conditions shall be distributed via radio.	MnE 1.3.3
			1.2.1.026	Travel conditions shall be distributed via cable television.	MnE 1.3.3
			1.2.1.028	Travel conditions shall be distributed via pager.	USR 1.1.4.1.4
			1.2.1.030	Travel conditions shall be distributed via e-mail.	Derived

Component					Source
Service	Function	Sub-Function	Requirement		
			1.2.1.032	Basic travel conditions shall be made available via on-line services.	Derived
			1.2.1.033	Travel conditions shall be distributed via electronic transfer to privately owned computer.	Derived
			l.2.1.035	Travel conditions shall be distributed via telephony.	USR 2.2.1.2.2.1 .l
			1.2.1.039	Transit travelers shall be notified when a transit vehicle is about to arrive.	USR 2.2.1.2.2.1.1,2.3.1.
			1.2.1.044	Authorized users shall be notified of travel conditions, when travel effects exceed their notification criteria.	Derived
TPD					
	MTPD				
		CD			
			2.1.3.001	Directions shall be computed from any user-specified source to any user-specified destination.	MnE 4.1, USR 1.3.1.1,
			2.1.3.002	Directions shall be computed for transit transfer and connections.	MnE 4.3.5
			2.1.3.003	Directions shall be based on a calculated route.	USR 1.3.2.2.2, GGO 3.5.
			2.1.3.003-a	If the travel conditions option is selected in the route requirements, then directions shall be determined using current or forecast travel conditions.	USR 1.3.2.2.2, GGO 3.5.
			2.1.3.004	If the travel conditions option is selected in the route requirements, then directions shall be determined using traffic conditions.	MnE 4.6,USR 1.1.3.3.1,
			2.1.3.005	If the travel conditions option is selected in the route requirements, then directions shall be determined using street closure information.	MnE 4.6, USR 1.1.3.3.1,
			2.1.3.006	If tlte travel conditions option is selected in the route requirements, then directions shall be determined using transit schedules.	MnE 4.6,USR 1.1.3.3.1,
			2.1.3.007	If the travel conditions option is selected in the route requirements, then directions shall be determined using transit schedule changes.	MnE 4.6,USR 1.1.3.3.1,
			2.1.3.008	If the travel conditions option is selected in the route requriements, then directions shall be determined using transit system status.	MnE 4.6, USR 1.1.3.3.1,

Component				Source
Service	**Function**	**Sub-Function**	**Requirement**	
		2.1.3.009	If the travel conditions option is selected in the route requirements, then directions shall be determined using no pedestrian zone information.	MnE 4.6, USR 1.1.3.3.1,
		2.1.3.010	If the travel conditions option is selected in the route requirements, then directions shall be determined using pedestrian event information.	MnE 4.6,USR 1.1.3.3.1,
		2.1.3.011	If the travel conditions option is selected in the route requirements, then directions shall be determined using business closure, opening, and move information.	MnE 4.6, USR 1.1.3.3.1,
		2.1.3.012	Directions information shall include mode of travel.	Derived
		2.1.3.013	Directions information shall include instructions text.	Derived
		2.1.3.014	Directions information shall include travel distance.	Derived
		2.1.3.015	Directions information shall include travel time.	Derived
		2.1.3.016	Directions information shall include travel cost.	Derived
		2.1.3.017	Instructions text shall include trip steps from origin to destination.	MnE 4.2,4.3, USR 1.3.1
		2.1.3.018	Instructions text shall include route/street names.	MnE 3.7.1, GGO 1.10.2
		2.1.3.019	Instructions text shall include which way to turn onto streets, roads, walkways and transit facilities.	USR 1.3.1.3
		2.1.3.020	Instructions text shall include direction changes(tums, exits,lane changes,mode changes,transfers).	MnE 4.2.2
		2.1.3.021	Instructions text shall include walking instructions.	Derived
		2.1.3.022	Instructions text shall include waiting instructions (i.e., layover times between trip segments).	Derived
		2.1.3.023	Instructions text shall include parking locations.	MnE 3.7.3,4.3.1
		2.1.3.024	Instructions text shall include transportation modes available.	MnE 4.3.4, GGO 10.5.3,
		2.1.3.025	Instructions text shall include transportation mode boarding, departure and transfer points	MnE 4.3.4, GGO 9.5.2,

Service	Function	Sub-Function	Requirement	Source
		2.1.3.026	Instructions text shall include public transit vehicle/route identification.	MnE 4.3.5,USR 1.1.1.1.
		2.1.3.027	Instructions text shall include connecting transit route information.	MnE 4.3.4,USR 1.1.1.1.
		2.1.3.028	Instructions text shall include next transit stop information.	Sbus 59-4.3
		2.1.3.029	Instructions text shall include transit schedules.	USR 1.1.1.1.2, 1.3.2.1, 1
		2.1.3.030	Instructions text shall include instructions on how to use the mode (transit).	MnE 3.7.5,6.4.6
		2.1.3.031	Travel distance shall include travel distances for each segment.	MnE 4.3.2
		2.1.3.032	Travel distance shall include total travel distance.	MnE 4.3.3
		2.1.3.033	Travel time shall include travel times for each segment.	MnE 4.3.2
		2.1.3.034	Travel time shall include total travel time.	MnE 4.3.3
		2.1.3.035	Travel cost shall include transit fares.	MnE 3.7.2,4.3.3, USR 1
		2.1.3.036	Travel cost shall include parking fees.	MnE 3.7.2,4.3.3
		2.1.3.037	Travel cost shall include tolls.	MnE 3.7.2,4.3.3
		2.1.3.038	Travel cost shall include total trip costs.	MnE 3.7.2,4.3.3
		2.1.3.039	Directions shall be available for the metro-wide area.	MnE 4.7.1
		2.1.3.040	Directions shall be available for a multi-city area.	MnE 4.7.1
		2.1.3.041	Directions shall be available for a multi-county area.	MnE 4.7.1
		2.1.3.042	Directions shall be available for a multi-state area.	MnE 4.7.1
		2.1.3.043	Directions shall be made available for a statewide area.	MnE 4.7.2
		2.1.3.044	Directions shall be available for a user-specified geographic area.	MnE 4.7

2.1.3.045	Directions changes shall be clearly noted with advance warning so that users can prepare for the change.	MnE 4.2.1,4.9.2	
2.1.3.046	A tracking capability shall be available to users to guide them through a set of directions.	MnE 4.9	
2.1.3.047	Directions shall be updated as the user progresses along a route.	MnE 4.9.3	
2.1.3.048	User's shall be notified of errors (missing or wrong turns) when following a set of directions.	MnE 4.9.4	
2.1.3.049	Directions shall be updated to get a user back on track to their destination after an error (missed or wrong turn) has occurred.	MnE 4.9.4	
2.1.3.050	A users location shall be determined automatically.	MnE 4.8.1,4.9.1	
2.1.3.05 1	Directions shall be computed from the user's automatically determined location to the user's specified destination.	MnE 4.8.2	

DR

2.1.2.00 1	A route shall be determined based on route requirements.	MnE 3.2, USR 1.1.3.1.2,
2.1.2.003	Route information shall include total route travel time.	MnE 3.5.3,3.7.1,4.3.3
2.1.2.004	Route information shall include total route travel distance.	MnE 3.7.2.
2.1.2.005	Route information shall include segment travel times.	MnE 3.7.1,4.3.2
2.1.2.006	Route information shall include segment travel distances.	MnE 3.7.1,4.3.2
2.1.2.007	Route information shall include segment names(streets, roads, highways).	MnE 3.7.1
2.1.2.008	Route information shall include estimated arrival time.	MnE 3.7.l
2.1.2.009	Route information shall include parking locations.	MnE 3.7.3,4.3.1
2.1.2.010	Route information shall include parking availability.	MnE 3.7.3
2.1.2.011	Route information shall include route travel cost (tolls, fares, parking).	MnE 3.7.2,4.3.3, USR 1

	Requirement	Source
2.1.2.012	Route information shall include routes highlighted on a map.	MnE 4.3
2.1.2.012a.	If the travel conditions option is selected in the route requirements, then a route shall be determined using current or forecast travel conditions.	MnE 4.3
2.1.2.013	If the travel conditions option is selected in the route requirements, then a route shall be determined using travel conditions, including traffic conditions.	USR 1.2.2.1.2.1, GGO 3.
2.1.2.014	If the travel conditions option is selected in the route requirements, then a route shall be determined using street closures information.	USR 1.2.2.1.2.1, GGO 3.
2.1.2.015	If the travel conditions option is selected in the route requirements, then a route shall be determined using public transit fleet schedules.	USR 1.2.2.1.2.1, GGO 3.
2.1.2.016	If the travel conditions option is selected in the route requirements, then a route shall be determined using transit schedule change information.	USR 1.2.2.1.2.1, GGO 3.
2.1.2.017	If the travel conditions option is selected in the route requirements, then a route shall be determined using transit system status	USR 1.2.2.1.2.1, GGO 3.
2.1.2.018	If the travel conditions option is selected in the route requirements, then a route shall determined using no pedestrian zones information.	USR 1.2.2.1.2.1, GGO 3.
2.1.2.019	If the travel conditions option is selected in the route requirements, then a route shall be determined using pedestrian event information.	USR 1.2.2.1.2.1, GGO 3.
2.1.2.020	If the travel conditions option is selected in the route requirements, then a route shall be determined using business closure, opening, and move information.	USR 1.2.2.1.2.1, GGO 3.
2.1.2.023	Link reference model data shall be accepted from multiple sources including public agencies.	Derived
2.1.2.024	Link reference model data shall be accepted from multiple sources including information service providers.	Derived
2.1.2.026	Link reference model data shall be accepted into the system via electronic entry (standard form)	Derived
2.1.2.028	A link reference model shall be stored and maintained.	Derived
2.1.2.029	Public transit fleet schedules shall be stored, updated and deleted.	USR 2.2.3.1.1

MTTP

BTI

2.2.2.001	A tailored trip itinerary shall be compiled based on user-specific criteria.	USR 1.1.3.1.1, 1.1.3.1.4
2.2.2.002	A tailored trip itinerary shall include route highlighted on a map.	MnE 3.7,4.3
2.2.2.003	A tailored trip itinerary shall include directions.	MnE 3.7,4.3
2.2.2.004	A tailored trip itinerary shall include any requested Traveler Services Information (eg.airline, hotel, rental car reservations, etc.) including information about destination points.	MnE 6.7
2.2.2.005	A tailored trip itinerary shall include any requested Traveler Services Information including information about points of interest along the route (e.g., service stations, restaurants, tourist sights, etc.)	MnE 6.7

DTPD

2.2.3.001	Tailored trip itineraries, tailored routes and tailored directions information shall be made available to users 24 hours/day, 7 days/week, 365 days/year.	MnE 3.6.1,4.4.1
2.2.3.002	Tailored trip itineraries shall be made available via fax.	MnE 3.6.3
2.2.3.003	Tailored trip itineraries shall be made available via computer.	MnE 3.6.3, USR 1.3.4.1
2.2.3.004	Tailored trip itineraries shall be made available via in-vehicle devices.	MnE 3.6.3, USR 1.2.1.5,
2.2.3.005	Tailored trip itineraries shall be made available via personal portable devices.	USR 1.1.4.1.4, 1.3.4.1,2
2.2.3.006	Tailored trip itineraries shall be made available via kiosks.	USR 1.3.4.1,2.1.2.2.4,2
2.2.3.007	Tailored trip itineraries shall be made available via printed media.	USR 2.1.2.2.3
2.2.3.008	Tailored routes shall be made available via fax.	MnE 3.6.3
2.2.3.009	Tailored routes shall be made available via computer.	MnE 3.6.3, USR 1.3.4.1
2.2.3.010	Tailored routes shall be made available via in-vehicle devices.	MnE 3.6.3, USR 1.2.1.5,
2.2.3.011	Tailored routes shall be made available via personal portable devices.	USR 1.1.4.1.4, 1.3.4.1, 2

2.2.3.012	Tailored routes shall be made available via kiosks.		USR 1.3.4.1,2.1.2,2,4,2
2.2.3.013	Tailored routes shall be made available via printed media.		USR 2.1.2.2.3
2.2.3.016	Tailored directions information shall be made available via phone		MnE 3.6.3, USR 1.3.4.1
2.2.3.017	Tailored directions information shall be made available via fax.		MnE 3.6.3
2.2.3.018	Tailored directions information shall be made available via computer.		MnE 3.6.3, USR 1.3.4.1
2.2.3.019	Tailored directions information shall be made available via in-vehicle devices.		MnE 3.6.3, USR 1.2.1.5,
2.2.3.020	Tailored directions information shall be made available via kiosks.		USR 1.3.4.1,2.1.2.2.4,2
2.2.3.021	Tailored directions information shall be made available via printed media.		USR 2.1.2.2.3
2.2.3.022	Tailored trip itineraries, tailored routes and tailored directions shall be made available via digital methods.		USR 1.1.4.2.1
2.2.3.023	Tailored trip itineraries, tailored routes and tailored directions shall be made available via audio.		MnE 4.9.2, USR 2.2.1.2.
2.2.3.024	Tailored trip itineraries, tailored routes and tailored directions shall be made available via video.		MnE 4.9.2, USR 1.3.4.1,
2.2.3.025	Travelers shall be notified when to leave for any trip.		MnE 3.7.4
2.2.3.026	Tailored directions shall be provided en route to individuals with impaired vision.		USR 1.2.3.1.1
2.2.3.027	Tailored directions shall be provided en route to individuals in areas of poor visibility.		USR 1.2.3.1.3
2.2.3.028	Directions shall be provided in a manner that augments existing signs (e.g.; stop signs, slow signs).		USR 1.2.3.1.4, 1.2.3.1.4.
2.2.3.029	Two-way communications capability shall be provided between the traveler and the infrastructure (for Route Guidance).		USR 1.3.2.2
2.2.3.033	Fixed/Flexible Routes planning shall support external customer query of the the fleet schedule. Query access may include telephone and intemet access.		MCTO 4/24/96 - 20
2.2.3.039	A trip request shall contain origin/destination points.		MnE 3.2.1, USR 1.1.3.2.

		2.2.3.040	A trip request shall contain option to factor in current or forecasted travel conditions.	MnE 3.2.4, USR 1.1.3.2.
		2.2.3.041	A trip request shall contain desired arrival time..	MnE 3.2.2, USR 1.1.3.2.
		2.2.3.042	A trip request shall contain desired departure time.	MnE 3.2.2, USR 1.1.3.2.
		2.2.3.043	A trip request shall contain maximum acceptable trip duration.	MnE 3.2.2, USR 1.1.3.2.
		2.2.3.044	A trip request shall contain preferred route(s)/route segment(s).	MnE 3.2.3, USR 1.1.3.2.
		2.2.3.045	A trip request shall contain a request for a route.	MnE 3.2.1, USR 1.1.3.2.
		2.2.3.048	A trip request shall contain a request for directions.	MnE 3.2.1, USR 1.1.3.2.
		2.2.3.052	Users shall be allowed to perform "what if" trip planning based on changes to parameters in their trip request or changes to their trip planning and directions profile.	MnE 3.3,3.4,3.5.1
		2.2.3.053	Alternate route(s)/route segment(s) shall be determined based on travel conditions changes.	MnE 3.5.1, USR 1.1.2.1.
		2.2.3.055	Query access of the the fleet schedule shall be available via telephone.	MCTO 4/24/96 - 20
		2.2.3.056	Query access of the the fleet schedule shall be available via Internet access.	MCTO 4/24/96 - 20
TSI				
	MTSD			
		BTS		
		3.1.2.001	Traveler services information shall geographically reference traveler services source data to specific, multi-modal route segments.	Derived
		3.1.2.008	Link reference model data shall be stored, updated and deleted.	Derived
		3.1.2.009	Traveler services information shall include restaurant information.	Derived
		3.1.2.0 10	Traveler services information shall include lodging/camping information.	Derived
		3.1.2.011	Traveler services information shall include fuel/vehicle services information.	Derived
		3.1.2.012	Traveler services information shall include emergency medical facilities information.	Derived

				Source
		3.1.2.013	Traveler services information shall include tourist sight information.	Derived
		3.1.2.014	Traveler services information shall include planned event information.	Derived
		3.1.2.015	Traveler services information shall include entertainment information.	Derived
		3.1.2.016	Traveler services information shall include shopping information.	Derived
		3.1.2.017	Traveler services information shall include airline information.	Derived
		3.1.2.018	Traveler services information shall include rental vehicle information.	Derived
		3.1.2.019	Traveler services information shall be created, stored, updated and deleted.	UST 1.5.1.1
		3.1.2.019a	Restaurant information shall include name.	Derived
		3.1.2.020	Restaurant information shall include description.	Derived
		3.1.2.021	Restaurant information shall include location.	Derived
		3.1.2.022	Restaurant information shall include phone number.	Derived
		3.1.2.023	Restaurant information shall include type of food.	Derived
		3.1.2.024	Restaurant information shall include hours of operation.	Derived
		3.1.2.025	Restarurant information shall include prices.	Derived
		3.1.2.026	Restaurant information shall include directions.	Derived
		3.1.2.027	Restaurant information shall include available parking information.	Derived
		3.1.2.028	Restaurant information shall include quality rating.	Derived
		3.1.2.029	Restaurant information shall include alternate modes of transporation available.	Derived
		3.1.2.029a	Lodging/camping information shall include name.	Derived

		3.1.2.030	Lodging/camping information shall include type of facility.	Derived
		3.1.2.031	Lodging/camping information shall include description.	Derived
		3.1.2.032	Lodging/camping information shall include location.	Derived
		3.1.2.033	Lodging/camping information shall include phone number.	Derived
		3.1.2.034	Lodging/camping information shall include rates.	Derived
		3.1.2.035	Lodging/camping information shall include availability.	Derived
		3.1.2.036	Lodging/camping information shall include services available.	Derived
		3.1.2.037	Lodging/camping information shall include directions.	Derived
		3.1.2.038	Lodging/camping information shall include available parking information.	Derived
		3.1.2.039	Lodging/camping information shall include quality rating.	Derived
		3.1.2.040	Lodging/camping information shall include alternate modes of transportation available.	Derived
		3.1.2.040.a	Fuel/vehicle services information shall include facility name.	Derived
		3.1.2.041	Fuel/vehicle services information shall include type of facility.	Derived
		3.1.2.042	Fuel/vehicle services information shall include description.	Derived
		3.1.2.043	Fuel/vehicle information shall include location.	Derived
		3.1.2.044	Fuel/vehicle services information shall include phone number.	Derived
		3.1.2.045	Fuel/vehicle service information shall include hours of operation	Derived
		3.1.2.046	Fuel/vehicle service information shall include directions.	Derived
		3.1.2.047	Fuel/vehicle service information shall include prices.	Derived

			3.1.2.047.a	Emergency medical facilities information shall include name.	Derived
			3.1.2.048	Emergency medical facilities information shall include type of facility.	Derived
			3.1.2.049	Emergency medical facilities information shall include description.	Derived
			3.1.2.050	Emergency medical facilities information shall include location.	Derived
			3.1.2.051	Emergency medical facilities information shall include phone number.	Derived
			3.1.2.052	Emergency medical facilities information shall include hours of operation.	Derived
			3.1.2.053	Emergency medical facilities information shall include directions.	Derived
			3.1.2.054	Emergency medical facilities information shall include alternate modes of transportation available.	Derived
			3.1.2.054..a	Tourist sight information shall include name.	Derived
			3.1.2.055	Tourist site information shall include type of facility.	Derived
			3.1.2.056	Tourist site information shall include description.	Derived
			3.1.2.057	Tourist site information shall include location.	Derived
			3.1.2.058	Tourist site information shall include phone number.	Derived
			3.1.2.059	Tourist site information shall include rates.	Derived
			3.1.2.060	Tourist site information shall include hours of operation.	Derived
			3.1.2.061	Tourist site information shall include directions.	Derived
			3.1.2.062	Tourist site information shall include available parking information.	Derived
			3.1.2.063	Tourist site information shall include alternate modes of transportation available.	Derived
			3.1.2.063.a	Planned event information shall include name of event.	Derived

Component					Source
Service	**Function**	**Sub-Function**	**Requirement**		
		3.1.2.064	Planned event information shall include type of event.		Derived
		3.1.2.065	Planned event information shall include description.		Derived
		3.1.2.066	Planned event information shall include location.		Derived
		3.1.2.067	Planned event information shall include phone number.		Derived
		3.1.2.068	Planned event information shall include prices.		Derived
		3.1.2.069	Planned event information shall include availability.		Derived
		3.1.2.070	Planned event information shall include hours of operation.		Derived
		3.1.2.071	Planned event information shall include directions.		Derived
		3.1.2.072	Planned event information shall include available parking information.		Derived
		3.1.2.073	Planned event information shall include alternate modes of transportation available.		Derived
		3.1.2.074	Entertainment information shall include type of entertainment.		Derived
		3.1.2.075	Entertaimnent information shall include description.		Derived
		3.1.2.076	Entertainment information shall include location.		Derived
		3.1.2.077	Entertainment information shall include phone number.		Derived
		3.1.2.078	Entertainment information shall include prices.		Derived
		3.1.2.079	Entertainment information shall include availability.		Derived
		3.1.2.080	Entertainment information shall include hours of operation.		Derived
		3.1.2.081	Entertainment information shall include directions.		Derived
		3.1.2.082	Entertainment information shall include available parking information.		**Derived**

	3.1.2.083	Entertainment information shall include alternate modes of transportation available.	Derived
	3.1.2.083.a	Shopping information shall include name of shopping facility.	Derived
	3.1.2.084	Shopping information shall include type of facility.	Derived
	3.1.2.085	Shopping information shall include description.	Derived
	3.1.2.086	Shopping information shall include location.	Derived
	3.1.2.087	Shopping information shall include phone number.	Derived
	3.1.2.088	Shopping information shall include hours of operation.	Derived
	3.1.2.089	Shopping information shall include directions.	Derived
	3.1.2.090	Shopping information shall include available parking information.	Derived
	3.1.2.091	Shopping information shall include alternate modes of transportation available.	Derived
	3.1.2.09 la	Airline information shall include name of airline.	Derived
	3.1.2.092	Airline information shall include flight departure times and destinations.	Derived
	3.1.2.093	Airline information shall include flight arrival times.	Derived
	3.1.2.094	Airline information shall include availability.	Derived
	3.1.2.095	Airline information shall include rates.	Derived
	3.1.2.096	Airline information shall include phone number.	Derived
	3.1.2.097	Airline information shall include special services.	Derived
	3. l.2.097.a	Rental vehicle information shall include name of rental company.	Derived
	3.1.2.098	Rental vehicle information shall include location.	Derived

3.1.2.099	Rental vehicle information shall include phone number.	Derived
3.1.2.100	Rental vehicle information shall include types of vehicles offered.	Derived
3.1.2.101	Rental vehicle information shall include rates.	Derived
3.1.2.102	Rental vehicle information shall include availability.	Derived
3.1.2.103	Rental vehicle information shall include directions.	Derived
3.1.2.104	Rental vehicle information shall include special services.	Derived
3.1.2.105	Traveler services information shall include recreational areas information.	Derived
3.1.2.106	Traveler services information shall include parking information.	Derived
3.1.2.107	Traveler services information shall include mode use information	Derived
3.1.2.107.a	Recreational areas information shall include name of recreational facility.	Derived
3.1.2.108	Recreational areas information shall include type of area.	Derived
3.1.2.109	Recreational areas information shall include location.	Derived
3.1.2.110	Recreational areas information shall include hours of operation.	Derived
3.1.2.111	Recreational areas information shall include services available.	Derived
3.1.2.112	Recreational areas information shall include directions.	Derived
3.1.2.112.a	Parking information shall include name of parking facility.	Derived
3.1.2.113	Parking information shall include location.	Derived
3.1.2.114	Parking information shall include phone number	Derived
3.1.2.115	Parking information shall include hours of operation.	Derived

3.1.2.116	Parking information shall include parking rates.	Derived
3.1.2.117	Parking information shall include services available.	Derived
3.1.2.118	Parking information shall include total number of spaces available.	Derived
3.1.2.119	Parking information shall include directions.	Derived
3.1.2.120	Mode use information shall include name of transit organization/company.	Derived
3.1.2.121	Mode use information shall include customer service phone number.	Derived
3.1.2.122	Mode use information shall include hours of operation.	Derived
3.1.2.123	Mode use information shall include area of service.	Derived
3.1.2.124	Mode use information shall include rules for use of the service.	Derived
3.1.2.125	Mode use information shall include payment methods accepted.	Derived
3.1.2.126	Mode use information shall include special services offered.	Derived
3.1.2.127	Mode use information shall include transit organization/company address.	Derived

CTS

3.1.1.001	Traveler services source data shall include restaurant data.	MnE 6.1.1, USR 1.5.2.2
3.1.1.002	Traveler services source data shall include lodging/camping data.	MnE 6.1.2, USR 1.5.2.2
3.1.1.003	Traveler services source data shall include fuel/vehicle services data.	MnE 6.1.3, USR 1.5.2.2
3.1.1.004	Traveler services source data shall include emergency medical facilities data.	MnE 6.1.4, USR 1.5.2.2
3.1.1.005	Traveler services source data shall include tourist sight data.	MnE 6.1.5, USR 1.5.2.2
3.1.1.006	Traveler services source data shall include planned event data.	MnE 6.1.6, USR 1.5.2.2
3.1.1.007	Traveler services source data shall include entertainment data.	MnE 6.1.7, USR 1.5.2.2

				Requirement	Source
			3.1.1.008	Traveler services source data shall include shopping data.	MnE 6.1.8, USR 1.5.2.2
			3.1.1.009	Traveler services source data shall include airline data.	MnE 6.1.9, GGO 10.5.2
			3.1.1.010	Traveler services source data shall include rental vehicle data.	MnE 6.1.1
			3.1.1.011	Restaurant data shall be accepted from restaurant guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1 .012	Restaurant data shall be accepted from travel guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.013	Lodging/Camping data shall be accepted from hotel/motel guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.014	Lodging/Camping data shall be accepted from camping guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.015	Lodging/Camping data shall be accepted from travel guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1 .016	Fuel/vehicle services data shall be accepted from travel guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1 .017	Emergency medical facilities data shall be accepted from multiple sources.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1 .018	Tourist sight data shall be accepted from travel guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.019	Tourist sight data shall be accepted from tourist agencies.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.020	Tourist sight data shall be accepted from chambers of commerce.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.021	Planned event data shall be accepted from event planners.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.022	Planned event data shall be accepted from tourist agencies.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.023	Planned event data shall be accepted from travel guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.024	Entertainment data shall be accepted from travel guides.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.025	Entertainment data shall be accepted from tourist agencies.	USR 1.5.1, 1.5.1.2, 1.5.1
			3.1.1.026	Shopping data shall be accepted from travel guides.	USR 1.5.1, 1.5.1.2, 1.5.1

Service	Function	Sub-Function	Requirement	Source
		3.1.1.027	Shopping data shall be accepted from chambers of commerce.	USR 1.5.1, 1.5.1.2, 1.5.1
		3.1.1.028	Shopping data shall be accepted from tourist agencies.	USR 1.5.1, 1.5.1.2, 1.5.1
		3.1.1.029	Airline data shall be accepted from airlines.	USR 1.5.1, 1.5.1.2, 1.5.1
		3.1.1.030	Airline data shall be accepted from travel agencies.	USR 1.5.1, 1.5.1.2, 1.5.1
		3.1.1.031	Rental vehicle data shall be accepted from rental car companies.	USR 1.5.1, 1.5.1.2, 1.5.1
		3.1.1.032	Rental vehicle data shall be accepted from travel agencies.	USR 1.5.1, 1.5.1.2, 1.5.1
		3.1.1.036	Traveler services source data shall be accepted for input into the system via magnetic medium.	Derived
		3.1.1.037	Traveler services source data shall be accepted for input into the system via digital methods.	Derived
		3.1.1.039	Traveler services source data shall be input into the system via electronic entry (standard format).	Derived
		3.1.1.040	Traveler services source data shall be input into the system via electronic entry (non-standard format).	Derived
		3.1.1.041	Traveler services source data received in a non-standard format shall be converted to standard format.	Derived
		3.1.1.042	Traveler services source data shall be created, stored, updated and deleted.	Derived
		3.1.1.043	Traveler services source data shall include recreational areas data.	Derived
		3.1.1.044	Traveler services source data shall include parking data.	Derived
		3.1.1.045	Traveler services source data shall include transit mode use information.	Derived
		3.1.1.046	Recreational areas data shall be accepted from travel guides.	Derived
		3.1.1.047	Recreational areas data shall be accepted from tourist agencies.	Derived
		3.1.1.048	Parking data shall be accepted from parking facilities.	Derived

Component				Source
Service	**Function**	**Sub-Function**	**Requirement**	
			3.1.1.049 Mode use information shall be accepted from transit agencies.	Derived
	MTTS			
		DTSI		
			3.2.4.002 Tailored traveler information shall be made available to users 24 hour/day, 7 days/week, 365 days/ year.	MnE 6.5.1
			3.2.4.003 Tailored traveler information shall be made available via phone.	MnE 6.5.3, USR 1.5.2.5
			3.2.4.004 Tailored traveler information shall be made available via fax.	MnE 6.5.3
			3.2.4.005 Tailored traveler information shall be made available via computer.	MnE 6.5.3, USR 1.5.2.5
			3.2.4.007 Tailored traveler information shall be made available via radio.	MlnE 6.5.3, USR 1.5.2.5,
			3.2.4.008 Tailored traveler information shall be made available via in-vehicle device.	USR 1.5.2.5, GGO 5.10.
			3.2.4.009 Tailored traveler information shall be made available via kiosk.	MnE 6.5.3, USR 1.5.2.5,
			3.2.4.010 Tailored traveler information shall be made available via personal portable devices.	USR 1.5.2.5
			3.2.4.011 Tailored traveler information shall be made available via HAR stations.	USR 1.5.2.5, GGO 10.5.
			3.2.4.012 Tailored traveler information shall be made available digitally (standard format).	Derived
			3.2.4.013 Tailored traveler information shall be made available via audio.	Derived
			3.2.4.014 Tailored traveler information shall be made available via video.	Derived
			3.2.4.015 Tailored traveler information shall be made available via hardcopy.	GGO 5.5.3
		DTTS		
			3.2.2.00 1 Traveler services information shall be made available to users based on user-specified parameters.	MnE 6.3
			3.2.2.017 Tailored traveler information shall contain type of facility/service offered.	MnE 6.7.4
			3.2.2.018 Tailored traveler information shall contain description of the service or facility.	MnE 6.7.1

	Requirement		Source
3.2.2.037	Tailored traveler information shall be compiled across multiple cities.		MnE 6.2,6.6.1
3.2.2.038	Tailored traveler information shall be compiled for a statewide area.		MnE 6.2,6.6.2, GGO 5.
3.2.2.039	Tailored traveler information shall be compiled across multiple states.		MnE 6.2,6.6.1
3.2.2.040	Tailored traveler information shall be compiled across a wide geographic region,		MnE 6.2,6.6

MR

	Requirement		Source
3.2.3.001	Users shall be able to make reservations for dining.		MnE 6.4, USR 1.5.2.3
3.2.3.002	Users shall be able to make reservations for lodging.		MnE 6.4, USR 1.5.2.3
3.2.3.003	Users shall be able to make reservations for airline flights.		MnE 6.4
3.2.3.004	Users shall be able to make reservations for rental vehicles.		MnE 6.4
3.2.3.005	Users shall be able to make reservations for special events.		MnE 6.4
3.2.3.006	Users shall be able to make reservations for entertainment.		MnE 6.4
3.2.3.007	A reservation/ticket request shall be sent to the traveler service provider for processing.		Derived
3.2.3.008	A reservation/ticket confirmation shall be received from the traveler service provider.		Derived
3.2.3.009	Users shall be allowed to purchase tickets for events, entertainment, tourist sites.		USR 1.5.1.4
3.2.3.010	Users shall be allowed to purchase airline tickets.		Derived
3.2.3.011	Users shall be allowed to make deposits for lodging reservations.		USR 1.5.1.4
3.2.3.012	User account information shall be sent to the traveler service provider, via the reservation/ticket request, when the user makes a purchase/deposit.		Derived
3.2.3.013	Users shall be able to make reservations for parking.		Derived